CONTENT.

BY FRED WARNES SWEALEY. The German Emperor and I Within the self-same year were born, Beneath the self-same sky. Upon the self-same morn; A Kaiser he, of high estate, And I the usual chance of fate.

His father was a Prince, and mine-Why, just a farmer-that is all. Stars still are stars, a though some shine And some roll hid in midnight's pall; But argue, cavil all you can. My sire was fust as good a main.

The German Emperor and I Eat, drink and sleep he self-same way; For bread is bread, and pie is pie. And Kings can cat but thrice a day, And sleep will only come to these Whose mouths and stomachs are not toes.

I rise at six and got owner. And he at five, and I we the same. We both have cares we cannot shirk; Mine are for loved ones; his for fame. He may live best. Learnot tell; I'm sure I wish the Kaiser well.

I have a wife, and so has her And yet, if pictures do not err, As far as human sight con see Mine is by being odd to twice as fair. Say, would I trade those eyes, dark brown? Not for an Empr ss and her erown.

And so the Emperor and 1 On this one point could noter agree; Moreover, he will never try, His fran suits him and mine suits me. And though his sous some day may rule, Mine stand At in public school.

So let the Kaiser have his sway, Bid kings and nations to able down, I have my freedom and me say, And fear no ruler and his crown; For I, unknown to fame or war, Live where each man is Emperor.

LOVE AND WAR.

BY WILLIAM WESTFALL.

A summer night at Geneva, and a nautical fete on Geneva's historical lake. The narrow stretch of water between the two sides of the city thronged with boats, great and small all aglow with Chinese lanterns; rockets shooting skywards in rapid succession, their course marked by trails of flery rain; at intervals the boom of cannon and the shouts

of excited spectators. "Good! Very well done, and how beautiful!" exclaimed Baron von Hoheastein, who, together with Dr. Burt and myself, were watching the spectacle from one of the balcoaies of the Hotel

de la Paix, "Yes, it is very fine. The fireworks are splendid. How beautifully the lights are reflected in the water. And then the 'cannon thunder.' You have seen war, Herr Baron; does it not rather re-

"A very small one. A single battery of light artillery would make more noise. Yes, I have seen war-seen it on a large scale-and though we Germans are supposed to be fond of fighting, I want to with thousands of corpses is a fearful sight, and when among the slain there are dear comrades and, it may be, kinsmen, and one thinks of the sorrowing bearts at home, It is hard to rejoice even over the greatest victory. Yet I must not speak ill of war, for to war I owe the happeness of my life."

The happiness of your life? How was that, Herr Baron?"

"Ach, Gott, Meinherr! Thereby hangs

"So much the better. I like tales, above all when they relate to love and war, and if I am not indiscreet-"You go too fast. How know you

that my tale relates to love and war?" "You spoke of owing to war the hap-

piness of your life"-"So! you think, then, that one cannot have a life of happiness without love? You are right. But I am not good at tale-telling. I daresay, though, that my dear brother-in-law here, Dr. Bart, who

myself will smoke the calumet of peace. "A very convenient arrangement," said the Doctor, smiling. "I don't smoke, so you are willing that I should have all have letters. It is a clear case. You the talk to myself. Convenient, yet are a spy, disguised as an officer of the scarcely fair; and Hermann does himself International Ambulance." scant justice. He can talk almost as

oblige you. Tell him all about it, Vic-

well as he can fight." "Ach! That s paying my power to fight a very poor compliment. Victor." "On the contrary, it is paying your lieutenant, 'Let the fellow be shot,'

power of talk a high one. However, I will tell my part of the story-that in tested with all the energy of a man who which I played the principal part, on pleads for his life. condition that you do the rest.'

Hohenstein. "By the time you have fia- under suspicious circumstances, and ished your tale I shall have finished my without a pass. As likely as not you are French traveller, Tavernier, sold to the pipe. Then I will begin; for smoke, a franc tireur in disguise. You speak Shah of Persia for \$670,000. It is still though a good listener, is a bad talker.

Whereupon Dr. Bart, turning to me,

began as follows: geon living here in my native city, very time. He also demanded an explanation, an Oriental pearl which is unique for the eager to work, yet with very little work which was of course promptly given, beauty of its color. In 1620 this pearl to do. So when the war broke out I of Then he questioned me closely, asking, was sold by Georgibus, of Calain, to fered my services, first to the Germans. smoog other things, where I had received Pailip IV. of Spain at the price of 80,then to the French, and falling to find my medical education. employment from either, I corolled myself as a volunteer in the International and the University of Warsburg." Ambulance Corps, which took the field "Then you know Professor Goer- of St. Peter, which is worth \$100,000. under the protection of the Red Cross of ling? the Geneva Convention. In that car

with the army of Marshal MacMahon. manufer. We had so gained from theirs. The affect who saved

and angagement and reseasing taken these arrheres were, and my similar in pullenting.

place there were continual affairs of out- this regard being accepted as proof of

my good faith, I was set at liberty. More-"Meanwhile the army was in a state of over, the chief of the medical staff dire confusion, marching and counter offered me a position as supernumerary marching without apparent object, for staff surgeon, an offer which I gladly acthe Marshal hesitated; he could not cepted, and accompanied Baron von Homake up his mind whether to follow the heastein to Paris, there to take part in dictates or prudence and fall back on the siege. Paris, threatened by the third German "And now, Hermann, I think I may Army, under the command of the Crown | leave you to tell the sequel," Princes of Prussia and Saxony, or, yield- "I will try," said the Baron, knocking ing to the entreaties of the Government the ashes out of his pipe. "I will try, march to the rescue of Bazaine, who was and all the more willingly as it can be at bay under the walls of Metz.

"While MacMahon was halting be-

movement had, however, hardly begun officer who won the Iron Cross. when still other orders were issued. The "Well, as he has told you, we went to-Seventh Corps was to march on Buzancy. gether to Paris, lived in the same quar-This meant that the influence of Paris ters, and becaue fast friends, and shall had prevailed, and MacMahon was about remain friends as long as both do live. to hazard everything in a desperate at- It was a hard winter, and we had a rough tempt to 'join hands with Bazaine,' an time. In the last days of the siege I got attempt which resulted in the fall of the | desperately wounded in a cavalry combat empire and the ruin of France.

Corps passed through Vouziers for the bullet went through my body. hearts and a laugh on their lips,

Mont Blanc. The road was so crowded that words are too weak to describe it. the fields, but only to lose my way in the drink, darkness, and despairing of finding it before daylight, I turned into a cattle shed. folded myself in my cloak and fell fast

dawn and, hastily rising, made for the her to nurse you. nearest road, with the intention of returning to Vouziers, although I had only beaven, for I had already fallen in love the vaguest idea as to the direction in with her, and one fine May morning, which it lay. While I was hesitating when I could move about a little, as we trampling of horses' hoofs and the rattle I told her what was in my mind. I beof accourrements fell on my ear. gan by saying that I did not know which 'Donay's rear guard,' I thought, 'they to be the more thankful for-the wound will tell me the way.' But the next on my head or the bullet through mybody, moment I heard voices, and from the "Thankful for hurts that nearly killed shadow of a wood emerged a squadron of | you, Baron !" she exclaimed. "You are Uhlans. They were chanting a hymn, surely joking or" the words of which brought vividly to 1 " I am neither joking nor delirious, my mind the Roman gladiators' last Mademoiselle Bart. I was never more greeting to the Emperor before they serious in my life. If I had not been joined in mortal combat, Ave! Casar! wounded, you would not have been my see no more of it. A battle-field strewn morituri te salutant (Hail, Cæsar! the nurse, and I should have missed the hapdving salute thee

can remember, ran thus:

" 'Oh, sun so red! oh sun so red! Light me to a warrior's bed. Yestreen mounted, lance in rest, To day a bullet through the breast, Morrow in the cold, cold ground, For God and Fatherland?

"I waited until the party came up. "Who are you, and what are you doing here? asked an under officer, riding forward.

"I told him. "I don't believe a word you have said, answered the man sternly, 'We have just come from Vouziers, and I can assure you there was not a Red

Cross ambulance in the place. You are "Against this imputation I warmly protested, pointed to my uniform, and produced my case of instruments.

"A uniform is nothing. Anybody is a born narrator, and knows the story can have a case of instruments. Where's almost better than I know it myself, will | your pass?

"Unfortunately I had left it at my tor. The fete is nearly over, and, while headquarters, and the only proofs of my you discourse on war, our friend here and identity and good faith which I could show were my eard case and a few letters from friends at Geneva.

"Letters are nothing. Anybody may

"Just then a lieutenant came up and demanded an explanation. "The under officer explained.

"'As you say, a clear case,' replied the "Against this summary justice I pro-

"You may save your breath,' said "Good! It's a bargain," returned you the lieutenant. You are found here

him, sergeant. dead certainty if another officer of higher transparent. It is to be had for the sum "In the year 1870 I was a young sur- rank hal not arrived in the very nick of of \$200,000. Princess Yoursoupoff has

pacity I made the campaign of Sedan mentioned several facts which lest my at \$175,000. questioner to believe that the account I One million dollars is the price of the August 23, 1870, we found our gave of myself was probably true, but he five chains of pourls forming the collier select at Vinciers, a small town of three said that until I combi furnish provide of of the Baronesa Gustave do Rothachild, thousand inhabitants, between Mexicos my identity and good faith it would be and that of the Baroness Adolphe Boths gone which, in the payonus century, purole, which, I need hardly observe, I ladies are enthusiastic cultertoes of pearls.

told quickly. I like not much speaking. "But I must first of all tell you that twen two opinions, the Germans were Victor is too modest. He has omitted a pushing forward with characteristic en- material part of his story. He obtained ergy. On the 26th their cavalry patrols his liberty and his appointment less beexchanged pistol shots with the scouts cause of what he did after the battle of the Seventh Corps, which formed the than of what he did during the battle. the right wing of the Marshal's army and He, a prisoner on parole and accused of would be the first to receive the enemy's being a spy, risked his life to save that of his captors. He dressed the wounds "A battle seemed imminent. General of my dear old friend, General von Elsen-Douay made his dispositions, fortified baum under fire, there being no other the heights, issued his orders, and con- surgeon at liberty, and helped to carry centrated his command. But on the him out of action. For that brave deed morning of the 27th came an order from he received the personal thanks of the the headquarter staff to fall back in the king and von Moltke. He showed more direction of Mezieres and Paris. The courage that day than many a fighting

near St. Cloud-my head was laid open Late in the afternoon the Seventh by a sabre stroke at the very moment a

third or fourth time. The men went "The doctors said that I must die, anyhow, singing songs, falling out when that nothing could save me. One alone It pleased them, cursing and shouting, refused to regard my case as hopeless, marching to death with despair in their and to him I am indebted for my life,

His name is Victor Bart. "In one of the officers of an infantry "I did not know it then, for I lay regiment I recognized an old friend from many days unconscious, but I knew afthe neighborhood of Ferney. The recog- terward that he treated me with consumnition was mutual, and he asked me to mate skill, and watched over me day and bear him company for a mile or two. night. So you see it cost him much We found so much to talk about that more trouble to save my life than it cost the shades of evening were falling be- me to save his. And then, when I was fore I remembered that I had to return to getting better, another came and helped Vouciers. But going back was hardly me to get well. A nurse she was, oh! less difficult than it would be to swim such a sweet nurse-the sweetest you against the currents of the Rhone, as it ever did see. She had soft, dark eyes, a rushes under the arches of the Pont du low, sweet voice, and a face so lovely with troops, horses, guns and carriages At first, being still weak, I really thought that progress was impossible. For every she was a visitant from heaven; and one step I made forward I was forced two day I told Victor that an augel had be n steps backward. In the end I took to smoothing my pillow and giving me to

"Victor laughed heartily. "That is my sister Lucie," he said. "A false report reached Geneva that I had been hurt, and she came to nurse "I awoke with the first glimmerings of me, but as I did not need a nurse, I set

"I felt glad she was not an angel from which way to take, a sound like the were walking under the chestnut trees,

piest time I have ever known. Your "The refrain of the hymn, as well as I good brother has saved my life. Will you share it with me, Lucie? For I love you so dearly that I would rather lose it than live unloved by the angel of my dreams.

> "I cannot tell you how Lucie answered, or whether she answered stall in words; but I read her : nswer in her eyes, and we were both very happy.

> "And then I told Victor, and he was very glad, and he proposed - the war being over and myself convalescent-that I should travel home by way of Geneva and make the acquaintance of his people.

"This offer I gladly accepted, and wrote to tell my people, who lived at Nuremberg, of all that had come to pass; and my mother and my sister. Natalie, met us at Geneva, and we stayed there several weeks.

"Natalic was a beautiful blonde, with blue eyes and rosy cheeks, and it was almost a matter of course that Victor and she should fall in love with each other; and the day on which Lucie and I learned that her brother and my sister were betrothed was the second happiest of our lives. We were all married at the same time; and every other year Victor and Natalie visit us at Nuremberg, and every other year we visit them at Geneva.

"That is the end of the story, and when I have smoked one more pipe we will join the ladies in the saloon, and I shall have the pleasure of introducing you to Madame Victor Bart and the Baroness von Hohenstein. Afterward we will go to the Jardin Anglais and you to my sister, Helenchen, so there will be a lady for each of us."

Famous Pearls.

The most curious among famous pearls s that which, three centuries ago, the German with a French accent. Snoot in the possession of the sovereign of Persia. Another Eastern potentate owns "And shot I should have been to a a pearl of 12; carats, which is quite 1000 ducats. To-day it is valued at \$225. "At the Medical School of Geneva 990. Pope Leo XIII, owns a pearl left to him by his predecessor on the thront and the chain of thirty-two pearls, owned "I did know Professor Goering, and by the Empress Frederick, is estimated

and their portion have furtructions to genes to France and antifolished the only valuable string of pourte which six has "Our first even was to establish a field juditections. On the meeting of the tight, emberted during the balk thirty years, the NOTES AND COMMENTS.

INTERIOR navigation has long held a prominent place in the tr flie of France, and it is not surprising to learn that the length of navigable waterways in that country is 8000 miles, of which 650 miles are returned as tidal, 2100 miles navigable without works, 2250 miles canalized rivers and 3000 miles canals. The State looks out for all but seven per cent of this network, which is therefore practically free from tolls. This system of inland navigation has cost about \$300,-000,000 for construction and purchase and \$25,000,000 for concessions. The annual cost of maintenance is about \$2,-600,000, or \$325 a mile, which covers ali expenditures whatsoever. The number of vessels employed on the waterways is | 000 in value. between 15,000 and 16,000; about 26 per cent have a capacity of 300 tons or more, while more than half have a capacity exceeding 100 tons. Moreover about 2000 foreign boats use the French canals each year. The motive power is now almost entirely furnished by draft animals, although a few steam tugs are used on the Seine, the Oise and some other rivers, and steam cargo boats are occasionally met. Cable towing and tow locomotives are also used in a few places. The average cost of moving a ton of freight one mile is stated to be .064 cents on rivers and 25 per cent less on canals.

Mr. Ono, a Japanese statistician, has just published some interesting figures concerning the remarkable increase of population in that country during the present reign, and especially since 1872 In January, 1872, the population was 33,111,000; in December, 1889, it had increased to 40,070,000. Since 1887 the annual rate of increase has been 13 in every 1000, so that, if this rate is preserved, the population will double itself in 58 years. In England the rate of increase is 13.2 per 1000, while in most European countries it is between six and nine, and in France and Spain much lower. Mr. One points out that the number of births in Japan is lower than in most civilized countries, except France, and that the number of illegitimate children is smaller there than in European States. He therefore attributes the great increase of the population to the development of wealth since the restoration and to a decrease in the deathrate among children. From the tables which he gives, he infers that the national wealth has doubled in Japan in the last ten years, and he shows that the increase in the population has been greatest in the northern and southern parts of the Empire, and least in the central part—a phenomenon due to migration from the central provinces.

THE proposition to use the General Post Office as a savings bank has been more or less discussed from time to time, and inasmuch as it is one that has been tried with great success in some other countries, and notably in Great Britain, it is likely to come to the front again at the Edinburgh Review to be the only institution of its kind which "affords best form of provision for old age, due to the thrift of the people, without the intervention of the State." At the present time one person in six of the population of Great Britain is a depositor in the Post Office Bank, and inasmuch as the operation of depositing and withdrawing money may be performed at any one of the 10,000 branch offices in the United Kingdom at which that kind of business is transacted, one can see that it is not because of the lack of itors is not much larger than it is.

THE State of California has for many years subordinated its mining to its agricultural and horticultural resources. It is a curious commentary on this fact that a recent computation shows not more than 20,000 of its 1,250,000 people are directly engaged in agriculture or fruit growing. In the first place, nearly or quite half the population of the States is congregated in San Francisco, Oakland and other cities around the great scaport. Los Angeles, with adjacent towns, claims a quarter of a million. It is true much of the prosperity of Los Angeles is based on its being the centre of a great orange and grape-growing district. But rather speculatively than practically in fruit growing. When it comes to those fruit growing the estimate is that they their families less than 100,000 in all.

THE graceful palmetto, that grows so profusely in the lower tier of the South- dency to create and maintain a morbid ern States, has recently become a factor state of the mind. The sufferer thinks in the industries of the South, for its that she has had this complaint and bewood is hard enough to carve and its lieves her thoughts right in every sense. listen to the music. I will also introduce fibre is strong enough to make excellent Those inclined to be hypochondriacal cordage and a useful substitute for are advised to keep away from dispensponges. In Jacksonville a factory has saries and medical institutions in general. elsewhere sink brushes are being made one's self." of blocks of wood, half of whose thickness is converted into bristling points. The young leaves of the tree make a salad that the people are beginning to appreciate, and the taste of it is likened. to that of chestnuts. Bears knew about small accompanying cup and saucer init long before the people did, and is it a favorite article of diet among them, the black bears climbing the trees and browsing on the fresh shoots as eagerly that of the service, if possible, the edge as they browse on watermelons.

THE fact that steam vessels coming under the United States inspection laws that it may be removed for laundrying heard you say you would marry the carried in the last fiscal year nearly purposes, and the whole is thrown over 7,000,000,000 passengers with only forty- the service in carrying it through the the efficiency of the inspectors. Besides "antky" lounger, who may not or will vants is human beings."- Detroit these forty eight passengers, 153 officers not drink tea en tete a tete. - [New York | Tribane. and sailors lost their lives in shipwreeks, | News. explosions or other disasters. Yet the total of two hundred coundities is wonderfully small considering the immease manher of people transported.

Larend Billion Sphiller, 1994; 1994;

Capt. Miles Standish, the hero of the early Pilgrim wars with the Indians, tha has been raised over his grave in Dux bury, Mass. It consists of a granite boulder, weighing five tons, upon which his name is cut, and which is flanked by a number of big cannon. It is appropriate and pleasing, though of a plair

and primitive character. THE northern part of Honduras i largely devoted to fruit culture. It is well watered, soil fertile, and climate healthy, with no drouths or frosts. At acre of land, properly cultivated, produces 300 bunches of bananas yearly and the liber is being turned to practical utility. The exports of vegetables has year from Honduras amounted to \$1,503-

BARON HIRSCH is said to be the riche man the world has ever known. It is said that he has a capital of \$500,000. 000. A man of frugal habits should be able to live comfortably on the income of such a sum.

THE BODY AND ITS HEALTH.

Apples. -Chemically, the apple is

composed of vegetable fibre, albumen, sugar, gum, ehlorophyl, malic acid, gallic acid, lime, and much water. Further more, the German analysts say that the apple contains a larger percentage of phosphorus than any other fruit or vege table. The phosphorus is admirably adapted for renewing the essentia nervous matter, lecithin, of the brain and spinal cord. It is, perhaps, for the same reason, rudely understood, that old Scandinavian traditions represent the apple as the food of the gods, who, wher they felt themselves to be growing feeble and infirm, resorted to this fruit for renewing their powers of mind and body. Also, the acids of the apple are of signal use for men of sedentary habits, whose livers are sluggish in action, those acids serving to eliminate from the body noxious matters, which, if retained, would make the brain heavy and dull, or bring about jaundice, or skin cruptions, or other allied troubles. Some such an experience uust have led to our custom of taking apple sauce with roast pork, rich goose, and like dishes. The malic acid neutralize any excess of chalky matter taken ripe and without sugar, diminish unit of energy. acidity in the stomach rather than provoke it. Their vegetable sauces and juices are converted into alkaline carbonates, which tends to counteract acidity

sons who have many ailments of slight

individual importance get a group of times distressing, says a medical writer, These are apt to cause in those of melancholy temperament an anxiety in regard to health and a general concern in one's self. This continued produces a habit any time. After thirty years experience of making one's feelings a mirror, but in the latter country, it is declared by this mirror, it may be remarked, is about as accurate in its reflections as the pieces of glass in a dime museum which make a absolute security for investment and the lean man fat or a fat man lean and in general distort every feature. Headaches, pains over the stomach, backaches, feelings of fatigue, muscular soreness, depressed spirits and a multitude of other things, appearing singly and amounting to little, tend to give one an impression that disease actually exists where there is nothing that is tangible. This condition of ailment carries with it what is known as hypochondria-n mental affection which brings with it an introspection. Those who have a habit of putting facilities that the proportion of depos- in the balance their little complaints against nature scarcely realize the risk they run. Thinking of one's self and speculating on the outcome of this little thing and that little thing in

the way of something extraordinary often makes an invalid out of one who is really in good physical condition. Hypochondria is a purely mental disease, born of internal feelings, but always outwardly expressed. Depression of spirits, a tendency to magnify little comnosed with ease and can be cured by In your ordinary course of existence, do not drug yourself; take plenty of exercise; avoid the mirror, except for the none the less its people are interested | toilet; let your conversation not include yourself; occupy your mind with sensible reading matter or home work, and, who devote all their time to farming and in a nutshell, forget that you exist so far as your petty ailments are concerned. It do not number more than 20,000 or with is only dwelling on trifles that makes a mental impression which develops with age and which has a well-defined ten-

A "Sufky" Tea Set.

The English have what they call a 'sulky" tea set, which is simply a very tended for use when a sip of tea is required. A "sulky" cover is a circle of linen embroidered in some pretty design. finished with scallops. An interlining kitchen that you would marry him?" pad of heavy cotton flannel, bound with ribbon, is lightly tacked to the mat, so

Sense of Direction.

P. E. Allis, a wealthy American gentheman at present living near Dieppe, beenling season is stated by eminent An English statisticion says that houses. France, is devoting much time and authorities on fishes and their allied are worth righteen times the rental momes to the investigation of a sixth eventures to be fully 9,000,000, a sum The afficer who saved my life was but for them any pearl of universal size. Furniture, according to inscrimen appears of disentency with which he became appears in almost parally as the line. and Carines with Ma-Mithous's army, and Baron Hermann von Holometrin.

were alta fact to like Sectority Corps.

Three days afterwards were finight the composition of la trying to actually a fact that tries to grapple with it.

The days afterwards were finight the composition of la trying to actually a new classification. The three makes even a single one of Appears, then accommoded by those of Section of Section as the composition of a very aggregate value arrived at the speciment of the agents as almost invisible. possible one one country comes and competerweeting to their surpearst form. A strong microscope, however, shows about The wealth of France is \$45. Mr. Aith would theselfy them accombing them drudy makent together stand-Brought which was seen filled with thanks to my new found from a local track peach the form of the form and t to be seen and the seen of the

It is certainly a striking memorial a PERPETUAL MOTIO. . MPOS-SIBLE.

> Insurmountable Obstacles in the Way of Making an Ideal Machine.

The reply to the question, Is perpetual motion possible? depends entirely upon the limitations put upon the term "perpetual motion." If we understand these words to mean a machine that would start itself, furnish power for doing work and continue in operation so long as required or until worn out, without the assistance of any external agency, the Scientific American thinks we way say with the utmost confidence perpetual motion is impossible. If, on the other hand, we define perpetual motion as a machine dependent for its action upon the variability of one or more of the forces of nature, we may say perpetual motion is possible. The thermal motor, in which expansion and contraction are produced by natural changes of temperature, is an example of a motor of this kind. In this machine the changes in volume in a body are made to store energy to be used in continuous regular work. A perpetual clock has been made on this principle.

Sun motors of various forms have been devised, which might be used in connection with storage mechanism for furnishing power continuously. A sun motor of sufficient size with a suitable storage system could furnish power the year round in almost any part of the world; success being a question of hours of sunshine and capacities of motor and storage system. Of course, what is said with regard to the sun motor applies with equal force to water wheels, windmills, tide and wave motors. Without doubt, all of these prime movers will come more and more into use as time advances and storage systems are perfected. Still they do not satisfy the seeker for the ideal perpetual motion. This should fill the conditions first mentioned; but, as we have already said, this is an impossibility. The first and strongest reason for making this positive assertion of ripe apples, either raw or cooked, will in regard to the ideal perpetual motion is found in the fact that never engendered by eating too much meat. It in the history of man has he been is also the fact that such fresh fruits as able to make a single atom of matter the apple, the pear and the plum, when or create the smallest fraction of a

All the works of man, of whatever name or nature, have been constructed of materials already in existence, and all the work done by man and Moreon Self-inspection,-Many per- his enginery has been accomplished by using current natural forces, such as the gravitation of water, the power symptoms which is annoying and some- of the wind and the heat energy of the sun, or the stored energy of coal and other fuels, or of chemicals. Having the command of some of nature's forces, inventors have sought to circumvent nature's laws so as to make water "run up hill," to cause masses of matter to act alternately in accordance with and in opposition to the law of gravitation; in short, to deprive matter of gravity while ascending, and to cause it to act with the full force of gravity while descending.

Among perpetual motion devices, of this class, proposed ar tried, is the one having weights arranged on a wheel in such a way as to fall outwardly and increase the leverage on one side of the wheel, while they fold in and diminish the leverage on the opposite side of the wheel. This machine, it is needless to say, has never moved on its own account, although it has become classic. In this device the superior number of weights on the side where the leverage is the least exactly balances the weights at the ends of the extended arms. This is true of all the modifications of this type of machine.

Although the efforts of inventors in this direction have been barren of plaints and a searching after what does results of the kind aimed at, yet not exist marks it course. It is diag- their labor has not been fruitless; many experimenters who considered proper attention to a very few details. actual trial better than any amountof study or calculation have learned that "knowledge comes of experience," and while discovering the fallacy of the ideal perpetual motion, they have been led to consider more practical subjects, making inventions which have proved beneficial to the world and profitable to themselves. If the inventor of machines intended to be self-moving will not accede to Newton's statement that "action and reaction are equal and opposite" (third law of motion), and that there is a perfect and wonderful balance in the forces of nature, let him thoroughly acquaint himself with the principles of physics, and he will ere long be been started for the purpose of making and to busy themselves with anything able to say with certainty just how brushes and brooms of the fibre, and which will take "one's mind away from the balance will occur in any and every perpetual motion machine of the ideal kind, and admit that he has not the power of creating energy.

Servants Are Human.

The large-boned domestic with a broad, thoughtful brow answered the bell with a fin de siecle promptness. "Mary," remarked the mistress,

"did I hear you say to a man in the

"You did. mem." "Was it the same young man I

night before, Mary?" "It was not the same, mem. I eight casualties certainly speaks well for house to the bedside of the invalid or would remind you, mem, that ser-

Erl Ergs by the Million,

The number of eggs in a mediumsized cel at the beginning of the